## The House That Jack Built





PART III

F course after a time the BOARDING HOUSE becomes INTOLERABLE to Jack and Jill. The sentiment that never fails to thrill them these days is: "No matter how humble, there's no place like HOME." Cupid is tickled to watch them reading the advertising pages of the news-

It looks so EASY. Nothing more to do, it seems, than pick a flat or a cottage and tell the furniture man to do the rest. All they will have to pay for the furniture every

month will hardly make a dent in the PAY ENVELOPE and the rent-well, of course, rents are pretty high when you want something really elegant.

So Jill takes to HOUSE HUNTING.

We can save the House Hunter all kinds of Worry and Trouble and show how a Pretty Home can be had for Less Than Rent

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## Dry Farming As Crop Insurance

By Prof. E. J. Iddings, Field Commissioner Dry Farming Congress

tricts where the annual precipitation plant and crop selection. Plants grown features that must be considered. vided certain principles and methods not adapted to and cannot succeed under are followed. There is nothing myste- dry farming. It is possible, of course, rious about the art, nor does even the to slowly acclimate such plants to the most enthusiastic dry farmer claim to semi-grid conditions, but meanwhile be able to raise crops without moisture. Dry farming at its best is moist- Not only the various state and federal ure conservation, which is brought experimental stations, but private inabout by plowing, smoothing, packing, dividuals, are taking up the work of cultivating and cropping to insure the adapting, by breeding and selection, reception and preservation of the larg- grains, grasses and forage crops to the est possible amount of natural rainfall, use of the dry farmer, In plowed land on the prairies, where the surface is made fine for a mulch, equally well in the various parts of the moisture rapidly penetrates and per- dry farming belt. The system that will meates the soil and within a few | bring heavy returns to the wheat farmmonths can be found continuous to a ers of the Palouse country in eastern depth of from 30 to 50 inches, while on Washington, would probably need to be contiguous sod it is rare that first much revised for New Mexico or Arinches of moisture can be found in the zons. In some districts of the semi-summer months. The se-called "Mis-arid belt profitable crops can be assured souri test" will satisfy the most skep-

for the reception of rainfall. Newly be stored and saved by summer cultiplowed land should be packed or made vation and this added to the next air and wind. The dust mulch, able crop. kept from one to six inches deep, de-pending on soil and climatic condi-trict and other parts of Washington and tions, is an important feature. It acts in some of the grain belts of Oregon es a blanket to preserve the moisture and California. below and is seential in any dry farm-Not only does the practical farmer recognize the value of the mulch, but also scientists have handiwindlasses, to enable daily weighings. Some of the soil tanks are cultivated. others are left to form a crust on the factors enter into the problem for the top layers. The invariable results of practice of the dry farming system. these experiments show that the saving of moisture depends wholly on the depth and fineness of the dust blanket Seed Essential.

The same methods do not succeed practically every year by using the essentials of the dry farming system. The land must be plowed to suffi- In other regions biennial cropping is clent depth to offer a body of loose soil necessary. The rain of one year must reasonably firm to prevent drying out year's precipitation to grow a profit-The latter plan has proved

Dry Farming Limits.

To set the limits that make it necessary to substitute dry farming for ed huge tanks of soils, arranged with those that call the halt on any kind of culture and make way for the cattleman and sheepmen is difficult. A retentive soil underlaid with tight sub-soll is far more favorable to crop production than either sandy surface maintained over the lower soil layers. or sandy sub-soil. Amount of sunshine, wind velocity, average temperatures, One of the essentials of handling land amount of evaporation and distribution

> Fortunatus Questions His Daddy

Say, daddy, when do the first permanent teeth come through?

Usually about 5 or 6 years of age, but before any of the "baby set" are shed a child cuts 4 permanent molars called "6th year molars."

Dr. H. A. Magruder DENTIST

I DON'T WORK FOR NEGROES

Dry farming is crop insurance in dis- in regions of limited rainfall is seed, of rainfall throughout the year are

Peculiar Problems. The southwest has some problems. A great deal of rain comes in the summer and fall. A light rainfall on the burning prairies is quickly heated and rapidly dissipated. A heavy rain is largely lost in runoff. Natural soil moisture is rapidly diminished by heavy evaporation, estimated at from 70 to 90 inches a year, from the ex-posed surface of a tank. Light rain and snowfall in winter make the winter grains ordinarily unsuccessful and make apossible the staple crop of the dry farmer, winter wheat. The spring winds drift the dust mulch and make "blow-

ing" the problem of the southwest.

The writer made an extensive trip through the southwest last August and found many interesting conditions. One farmer, near Melrose, N. M., had a field of alfalfa nicely started. He was a man of slender means but of considerable reand to get the alfalfa seed evenly distributed he shook it from the perforated lids of large baking powder cans held in either hand while riding the disc. younger brother walked behind and drove the team.

Arizona Work, In the Sulprur Springs valley, near Douglas, Ariz, excessive evaporation and great range in daily maximum and min/mum temperatures have been ellmatic factory in plant growth. Excessive heat by day and then sudden change he average net decrease in extremes of is probably due to greater growth and of smoke thrown over the valley by the huge smelters. The normal precipitation at Douglas is 16.21 inches.

In Texas, the cattle king with his domain of from 100 to 200 sections of land, is rapidly giving way to the set-The Texas cattle industry has destate. As rapidly as the leases expire the lands are offered for sale to sealbidders. bid for the land, and the cattleman released for another long term of years. The cost was from \$15 to \$20 a section annually. Within the last four years regions of the United States alone, these lands have been purchased by an ncoming rush of settlers and speculators as soon as the leases have exxpired. As a result the kingdom of cattle is a thing of the past in western Texas, the former paradise for the kings of this great industry.

There are yet many holders of from 36 to 40 sections, but these can claim no dignity. In the vernacular of the Lone Star state such holders are only "squatters" and do not at all fit in with the old ideas concerning this land of wonderful mirages, magnificent distances and bigness of things in general. This region, as a dry farming belt ex-tends from El Paso, on the Rio Grande, paratively small portion of the world's eastward almost to San Antonio. The semi-arid lands

inches annually and progressively increases to about 29 inches at Midland and to above 25 inches at San Antonio. Summer Rain.

In the southwest and generally south of the southern boundary of Colorade, the major portions of the precipitation come in summer. There the fall and winter grains have not been found successful. The district seems especially adapted to the saccharine and nonsaccharine sorghums, to Indian and lar system that produces a good probroom corn, to melons and beans and some kinds of small fruits. The quick growing late summer crops have given the best satisfaction. The quick feeder, matures early, and may be weather before it is eaten. Cooking the best satisfaction the best satisfaction.

North of the last mentioned line, the greater portion of the rainfall comes in winter and spring, when snowfall is grain crops and the big problem of the farmer is to conserve the winter sown crops. Sorghums have also been great deal of success in some sections, but the cereals are considered as and of producing bread for the coming standard to the region. Wheats, bar- generations. ey, rye, emmerindian corn and other rops that flourish under similar enviwithout irrigation in extensive ricts of Washington, Oregon, Idaho, Wyoming, Montana, Utah, Colorado, ourcefulness. He had no grass seeder katchewan, Manitoba and British Coumbia.

Rule of Rainfall.

Dry farming experts have not entirely agreed to the upper and lower regions of precipitation for defining dry farming territory. The old rule was: region having an annual average preing clause: "Providing no moisture is received from seepage or sub-irriga-The board of governors of the to cold nights was very unfavorable to Dry Farming congress have promulgated the following rules in regard to proper Queen smelter at Douglas show that duets exhibited at the third International Dry Farming exposition to be held temperature in that valley within the in Spokane. Wash., October 3 to 8: "Exhibits will be accepted in the International Dry Farming exposition from extent of vegetation and to the pall that territory in the United States including and west of the 98th meridian and up to and including the 121st meridoutside the limits of the United States where the annual precipitation averages under 20 inches, providing such products have not been grown upon irpended on long time leases from the rigated, sub irrigated or seepage land.

Possibilities of development of such lands as come within the limits of the rule quoted almost stagger the imagination. It has been conservatively estimated that 200,000,000 acres of land the await development within the semi-arid This area, once it is occupied by a successful and contented and prosperous agricultural class, will mean annual or at least semi-annual crops from this vast empire now largely in virgin The conversion of such lands from raw prairie to agricultural holdings will mean the addition, at low estimate, of \$20 an acre to their value, or \$4,000,000,-000, to the aggregate agricultural wealth, west of the 100th meridian. It will also mean an independent farm home on at least each 320 acres, or 600,000 additional farm homes.

World's Semi-Arid Lands.

Hog Raising In Irrigated Regions

on hog raising in that state apply with equal force to the conditions existing in this portion of the southwest. Barley, here, as well as in Col-orado yields well, is cheap to produce. and the product, barley-fed pork, commands the highest price in every mar-ket on account of its flavor. Field peas also yield well and are cheaply grown, producing some of the best flavored pork. The flavor imparted by alfalfa pasturage is well known and the gains in weight are most satisfactory when hogs are allowed to forage on it. For dry land farming, barley, mile maize and wheat are profitable hog feeds and sure crops ordinarily.

Barley Raised Cheap. It is cheaper to raise barley under irrigation than corn in the Mississippi valley states and it will produce more pork. It has been found that 500 to 1000 pounds gain in weight during a season is not unusual for hogs pastured on alfalfa, and greater yields have been recorded. In Colorado, including the rent of the land, it costs \$3 to \$6 to raise an acre of field peas, which when pastured will produce 400 pounds of

For packing, a fat blocky hog weighing alive 220 to 250 pounds is desired. In the winter time there is a demand

Only Kinished Hogs Wanted.

It is only the well finished hog that rounded out, with the flesh coming well down on the hocks and fat on the sides portion of lean meat.

A well finished hog will dress \$9 per

cent. Hogs that are stunted during the litter. summer do not finish well, and an unfinished hog weighing 150 pounds will dress only about 65 per cent. Be-cause the bacon from unfinished hogs cooks to skin and soft, flabby meat, it sells at wholesale for one-half that from finished ones.

The meat from an unthrifty hog is always soft and unusually so from a thin one, and the flesh on the live unfinished hog is soft and flabby and the are of uneven quality are sometimes included in the same shipment, which, the cuts secured from fattened and un- for. finished hogs.

The Best Breeds. The four breeds that are given by Mr. Cottrell as being best adapted to Colorado conditions are ones that also give satisfaction when raised here: Berkshire, Duroc-Jersey, Poland-China and

There are greater differences in hogs best and gives his best attention. with it and not cross breeds.

White hogs have tender skins which apt to overload himself instead are blistered and cracked by the in tense sunshine, running sores often forming and many become runts. They have been profitably raised in Colorado by pasturing them where there is heavy

Berkshires Hardy.

hardy animal that adapts itself to any condition suitable for hog raising. By varying the feed they may be developed barley was one-twelfth better into bacon or lard hogs. It is a good hog for following cattle in the feed lot and its activity gives it a good muscuportion of lean meat. It is a good the grain may sour or freeze in cold

tralia, Turkey, Persia and Austro-tungary have hundreds of millions of acres more. Some authorities estimate fertile plains of the west will be outalso extensive. This is the home of the the available acreage for scientific con-side of the bounds of possible irriservation of soil moisture at 5,000,000,- gation. Both systems aim at conser-000. Nearly all of these countries are vation of water for growing crops. precipitation far enough into spring and summer to mature fall or early spring the day farming movement in provid-Affalfa seems to promise and for the use of these lands as a means of increasing agricultural wealth

The Dry Farming congress is one of the newest of old movements. Moistronment have been grown for years ure conservatism was practised by the dis- growers of grapes and olives of northern Africa in the days of old Carthage; the Navajos grew beans and corn Kansas, Nebraska and the Dakotas, in the southwest by dry farming methods propably before the discovery of and wisely.

America: the Mexicans and Papago indians of Sonora in Old Mexico were growing crops by carefully saving the natural rainfall for them, when the American nation was yet a struggling infant. Neither is dry farming a new process in the northwest. Enormous rops have been produced in Washingcipitation above eight and below 20 ton and California by its use. In some inches." To this was added the follow- districts these methods have been in

vogue for 40 years. Forty-seven Years at It.

Bishop George Farrell, of county. Utah, has practised dry farm-ing 47 years. He learned a valuable point by accident. He sowed 92 acres of land to wheat at the rate of a bushel "Exhibits will be accepted in the International Dry Farming exposition from that territory in the United States in with the four bushels. When harvest time came Bishop Farrell reaped 17 bushels an acre from the 92 acres and ian, and from sections and communities 37 bushels each from the eight acres. He ascribes much of his many years of cess to the discovery of the value of thin seeding.

Any system or method of doing things, however, needs to be made known so that it may be of benefit to the greatest number. The first publicist of the farming movement and one who has done incalculable good in aiding development of western agricul-W. Campbell, of Lincoln, Prof. Campbell discovered the value of a firm soil for the saving of noisture and has made a special study of packing, also inventing a special tool for firming the under soil layers. He also did a large share of the work in promulgating the ideas as to proper plowing, cultivating and preparation and preservation of soil moisture. He succeeded in interesting the railroads in his ideas and was the first lecturer on dry farming metho

The Two Big Movements. Irrigation and dry farming are the two big agricultural movements of our generation. Both are necessary; each is supplementary to the other. It is supplementary to the other area is 15,000,000 acres. Economy of importance and need of livestock in

the Berkshire was very prolific, but due to breeding for prize-winning some families have become shy breeders breeding, care should be taken to se-

cure those from prolific ancestors. The Berksbire has fat and lean well distributed in the meat, has short head, nose and legs making waste. It has black and white on the face, feet and tips of tail, and is an attractive hog

The Duroc-Jersey is a red, smooth thick-meated hog and typically of the lard kind. It is active, hardy, a good feeder and grazer and when well fed it matures early and becomes heavy when full grown. It is a prolific breed, averaging nine pigs to the litter In Colorado, mature sows are managed to produce two litters a year. The carcass often has more bone than either the Berkshire or Poland-China, with meat often not so fine grained. Coarseness of bone and hair, particularly of the hair along the back, should be avoided. Breeding animals should have strong pastures; Duroc-Jerseys are apt to be weak in this respect.

Mr. Cottrell describes the Polandby city trade for well finished hogs ing machine, not excelled by any breed weighing from 150 to 175 pounds of any kind of live stock for convert-Cured hams weighing 16 to 18 pounds ing feed into flesh. It has a great apand sides of bacon weighing 10 to 12 petite, good digestion and is laxy. With pounds may be secured from hogs proper treatment it can be marketed weighing alive 220 to 250 pounds any time after six months old. Typical-Weights like these secure a premium ly a lard hog, it has a thick, short, of 75 cents a hundred pounds over light- massive body, fine bone, hair and skin, massive body, fine bone, hair and skin, small head and short legs. It has thick flesh and heavy shoulders and hams, and broad, thick loins, but matured aniis wanted, hogs that are fat and well mals have too large a proportion of fat, rounded out, with the flesh coming well. Overfeeding of corn has a tendency to make the Poland-China a poor breeder, 1 to 1 1-2 inches thick. The flesh of a good feeder giving birth to but one finished hog is firm and hard to the to four pigs in a litter in such cases. touch and the hair is smooth and lus- If they are selected from good protrous. The best consumers want a pro- lific strains and fed muscle and bone portion of lean meat. making feeds, they are as prolific as any breed, averaging 7 1-2 pigs to the

The Tamworth is a baown hog and ooks like a "razor back." It has a smooth, long, deep, thin body and has as possible of choice bacon. On the Culrado Agricultural College farm, the Tamworth sows average ten live pigs per litter. A two-year-old sow weigh-ing 750 pounds had 18 live pigs of one farrowing, one fully matured sow can hair has a dead appearance. Hogs that produce two litters a year. At the Iowa Agricultural College, a sow of this breed raised 33 pigs in one year. unless the market is pressing, sell for the price of the poopest. Every hog raiser should spend a day in the market with stock yard and packing house experts and learn the touch and appearance of a choice hog. In the properties of a choice hog. In the properties of a choice hog. In the properties are considered in the state of a choice hog. In the properties are considered in the same same which the properties are considered in the same same without the properties are considered in the same same and the properties are considered as price of the properties are considered as properties and the properties are considered as present as a period of neglect, but the Tamworth is solid red in color, hardy, active, good on pasture, has a large proportion of lean meat and produces a period of neglect, but the Tamworth is solid red in color, hardy, active, good on pasture, has a large proportion of lean meat and produces a period of neglect, but the Tamworth is solid red in color, hardy, active, good on pasture, has a large proportion of lean meat and produces a period of neglect, but the Tamworth is solid red in color, hardy, active, good on pasture, has a large proportion of lean meat and produces a period of neglect, but the Tamworth is solid red in color, hardy, active, good on pasture, has a large proportion of lean meat and produces are proportion of lean meat and produces ance of a choice hog. In the packing hasn't the fat to carry him over, is house too he can see the difference in apt to be stunted if not properly cared

Feeding hogs with rations that are rich in protein, as are the staples of the irrigated regions, causes them to drink larger quantities of water than when fed on starchy feeds like corn. They should therefore have access to clean water. Irrigation ditches or streams are great carriers of disease and hogs of the same breed than betwen choice should be kept sway from them. It is animals of different breeds, and the convenient where water is not handy best breed is the one the grower likes in pastures to mount a barrel upon a The small sled and carry it this way to feeder should select a breed and stay the hogs waterer. When a hog has to travel some distance to drinking small quantities often.

Rolled Grain Best. The grain in semi-arid regions is harder than that grown in humid parts, and it is therefore not economical to feed it dry and whole. Rolled grain is better than the ground kind. At the The Berkshire is an energetic and Colorado station it was found that ground barley was one-half better than whole bald barley; that ground feed whole-fed barley, and that ground corn was one-fifth better than whole corn. Soaking grain 24 to 48 hours gives the effect of grinding, but in hot weather

The dry farmer, however, must do

with less water and must be less wasteful than the irrigationist. As each becomes more proficient in his art the two systems are made to approach more nearly together. In northern Colorado, the early farmers never thought of attempting to grow winter wheat without three or four irrigations. Now they use but one irrigation and occasionally mature the crop with natural rainfall Experts are continually cautioning th farmers under irrigation systems to use less water and use it more carefully The skillful dry farmer is learning

car by year little details of management that mean greater efficiency and allows a lower percentage of waste of the moisture given him by nature Time will bring such value to irrigating waters that the farmer will need to exercise greater economy grow crops profitably. It is no idle dry farmer will be used in many irri-Cacae gation districts where irrigation is now from wells or stream beds and irrigate lawns, gardens and small fields. There need not exist any other relation except the closest and most intimate between irrigation and dry farming.

Dicournging Factors

It is useless to deny that there are iscouraging factors in this great movement of which we speak. A certain amount of legitimate advertising is desirable and necessary but it is an unwise economic policy for a new community to divert so much of its energy from plowing and harrowing and consume it in angling for the patronage of the land-hungry newcomer.

The optimism of some of the new settlers of the dry lands in the west is almost pitiful. The writer was approached last fall by a former music teacher of Boston, living on 80 acres in the raw sod in northeastern New Mexico. This settler wanted advice as to whether \$100 a month net returns could be expected from his land the coming year. Some new communities need to have a few feathers plucked from the wings of their imagination and placed in the tail of good judgment-In many districts there is too much horse back farming and too much exectation from the expenditure of little labor.

Eeverywhere there are complicated problems of soils and sub-soils, of crop adaptation, of plowing, cultivation and rainfall at El Paso is from eight to 10 Argentine, Brazil, South Africa, Aus- water and utilization of water now the dry farming program been fully ave your

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clated. But these conditions are far from hopeless. The impractica' and overhopeful clerk-farmer will return to the quiet east, where he properly belongs, and the over-zealous promote will pass on to the other fields of exploitation. sage will be applied and give the farmer a measure of available moisture for growing and maturing crops.

Pluck, Science and Genius, The pluck and science and the genius of man will in time Lring to practical solution the problems of the semi-arid areas, and the dormant responsibilities will respond many fold to the touch of his genius guiding hand.

Officers of the congress are glad to be able to announce that the year's returns thus far received have not only sustained all the contentions of dry farming experts but has also greatly strengthened the dry farming move-From all points of the compass and from widely separated dry farm-ing districts comes the same story. The careless farmers are losing their crops as their lands have not been prepared to retain moisture and withstand drouth. On the other hand, the practical dry farmer will have profitable returns in many cases and in no instance so far reported will the reat dry farmer be unable to gather sufficient harvest to support his family and keep his livestock over winter.

ADDITIONAL DRY FARM-ING NEWS ON NEXT, PAGE

An Expert's Opinion of Skin Diseases

A prominent, national expert on skin diseases whose name you are familiar with says that in all his scientific experience he has never found so hard a disease to conquer as Eczema. does not hesitate to recommend ZEMO prediction that in coming years the as a most successful remedy for the moisture conserving methods of the treatment of Eczema, being skin diseases, dandruff, pimples, blackheads and all other diseases of the skin and held as all-sufficient. Likewise the dry scalp. He says that not only do its farmer by use of windmill or gasoline curative qualities make it popular but engine will often be able to pump also the fact that it is a clean, liquid remedy for external use. A great improvement over the old style greasy salves and lotions which are not only unpleasant to use but do not destroy the germ life that causes the disease. ZEMO draws the germs to the surface and destroys them, leaving the skin clear and healthy. Can be used freely on infants. Mr. Knoblauch will gladly supply those who call with a free sample bottle of ZLMO and a booklet which explains in simple language all about skin diseases and how to cure yourself at home with ZEMO. Knoblauch Drug Co.

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